Application No.: 09/0/5399 NT APPLICATIONS CONTAINING

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

	 This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
X	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
Ap	plicant Must Provide:
	An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
	An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
X	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
For	questions regarding compliance to these requirements, please contact:
	Rules Interpretation, call (703) 308-4216
	CRF Submission Help, call (703) 308-4212
LOI	Patentin software help, call (703) 308-6856

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PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/015,399

DATE: 03/26/1999 TIME: 14:04:59

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQU	ENCE LISTING	
2 3	(1) G	eneral Information:		
4	• •			ENTERED
5 6	(i)	APPLICANT: Hinkkanen, Ari	·	
7 8 9 10	(ii)	TITLE OF INVENTION: A New Fu Immunoassay for the Simul Autoantibodies Related to Mellitus	taneous Detection	of
12 13	(iii)	NUMBER OF SEQUENCES: 13	·	
14 15 16 17 18 19 20 21	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Rothwell, Fi (B) STREET: 555 Thirteenth (C) CITY: Washington (D) STATE: D.C. (E) COUNTRY: USA (F) ZIP: 20004		
22 23 24 25 26 27	(V)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy dis (B) COMPUTER: IBM PC compat (C) OPERATING SYSTEM: PC-DC (D) SOFTWARE: PatentIn Rele	ible S/MS-DOS	#1.30
28 29 30 31 32	(vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US (B) FILING DATE: 29-JAN-199 (C) CLASSIFICATION:		
33 34 35 36 37	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Ihnen, Jeffrey L. (B) REGISTRATION NUMBER: 28 (C) REFERENCE/DOCKET NUMBER	3,957	
38 39 40 41 42	(ix)	TELECOMMUNICATION INFORMATIO (A) TELEPHONE: 202-783-6040 (B) TELEFAX: 202-783-6031		
4 2 4 3 4 4	(2) INFO	PRMATION FOR SEQ ID NO:1:		
45	(1)	SEQUENCE CHARACTERISTICS:		
46	(-)	(A) LENGTH: 8 amino acids		

RAW SEQUENCE LISTING PATENT APPLICATION US/09/015,399

DATE: 03/26/1999 TIME: 14:04:59

47			(B) TYPE: amino acid
48			(C) STRANDEDNESS:
49			(D) TOPOLOGY: linear
50			
51		(ii)	MOLECULE TYPE: peptide
52		(,	F-E
53		(17)	FRAGMENT TYPE: N-terminal
54		(• /	I I I I I I I I I I I I I I I I I I I
55			
56			
57			
58		(X1)	SEQUENCE DESCRIPTION: SEQ ID NO:1:
59			
60		Asp	Tyr Lys Asp Asp Asp Lys
61		1	5
62			
63	(2)	INFOR	RMATION FOR SEQ ID NO:2:
64	` .		<u>-</u>
65		(i)	SEQUENCE CHARACTERISTICS:
66		(-/	(A) LENGTH: 9 amino acids
67			(B) TYPE: amino acid
68			(C) STRANDEDNESS:
69			
			(D) TOPOLOGY: linear
70			
71		(11)	MOLECULE TYPE: peptide
72			
73		(V)	FRAGMENT TYPE: internal
74			
75			
76			
77			
78		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:2:
79		` '	-
80		Lvs	Lys Lys Arg Pro Arg Lys Lys
81		1	5
82		-	ŭ
83	(2)	TNEOD	RMATION FOR SEQ ID NO:3:
	(2)	INFOR	MAITON FOR SEQ ID NO:3:
84			and united at the transfer of
85		(1)	SEQUENCE CHARACTERISTICS:
86			(A) LENGTH: 10 amino acids
87			(B) TYPE: amino acid
88			(C) STRANDEDNESS:
89			(D) TOPOLOGY: linear
90			
91		(ii)	MOLECULE TYPE: peptide
92			
93		(V)	FRAGMENT TYPE: C-terminal
94		(' /	
95			
96			
97			
		/ n=	GEOVERNOE DEGODERATOR, GEO. TO MO. 3.
98		(X1)	SEQUENCE DESCRIPTION: SEQ ID NO:3:
99			

RAW SEQUENCE LISTING PATENT APPLICATION US/09/015,399

DATE: 03/26/1999 TIME: 14:04:59

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100 101		Cys 1	Asn	Gly	Ser	His 5	His	His	His	His	His 10						
102		-				J					10						
103	(2)	INFO	RMAT	TON	FOR	SEO	TD N	0:4:									
104	(-,			- • • •		2											
105		(i)	SEO	UENC	е сн	ARAC	тевт	STIC	s:								
106		(-,) LE													
107) TY													
108) ST													
109				, TO				ar									
110			`-	,													
111		(ii)	MOL	ECUL:	E TY	PE:	pept	ide									
112		` '					L - L -										
113		(V)	FRA	GMEN'	T TY	PE:	inte	rnal									
114		` '															
115																	
116																	
117																	
118		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	D NO	:4:						
119									_								
120		Lys	Lys	Lys	Arg	Ser	Arg	Lys	Lys	Lys							
121		1	_	-	_	5	_	•	•	•							
122																	
123	(2)	INFO	RMAT	ION :	FOR :	SEQ	ID N	0:5:									
124																	
125		(i)	SEQ	UENC	E CH.	ARAC'	TERI	STIC	S:								
126			(A) LENGTH: 979 amino acids														
127			(B) TY	PE:	amin	o ac	id									
128			(C) ST	RAND	EDNE	ss:										
129			(D) TO	POLO	GY:	line	ar									
130																	
131		(ii)	MOL	ECUL	E TY	PE:	prot	ein									
132																	
133																	
134																	
135																	
136		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	ON C	:5:						
137																	
138			Arg	Arg	Pro		Arg	Pro	Gly	Gly	Leu	Gly	Gly	Ser	Gly	Gly	Leu
139		1				5					10					15	
140																	
141		Arg	Leu	Leu		Cys	Leu	Leu	Leu		Ser	Ser	Arg	Pro	Gly	Gly	Cys
142					20					25					30		
143				_		_											
144		Ser	Ala	Val	Ser	Ala	His	Gly	Cys	Leu	Phe	Asp	Arg	Arg	Leu	Cys	Ser
145				35					40					45			
146		•	_			_							_	_		_	
147		His		Glu	Val	Cys	Ile		Asp	Gly	Leu	Phe		Gln	Cys	Gln	Val
148			50					55					60				
149		a 3			a -		_	_	_	_					_		
150			val	Gly	GIn	Ala		Pro	Leu	Leu	G⊥n		Thr	Ser	Pro	Val	
151		65					70					75					80
152																	

PAGE: 4

RAW SEQUENCE LISTING PATENT APPLICATION US/09/015,399

DATE: 03/26/1999 TIME: 14:05:00

																31200.N
153	Gln	Arg	Leu	Gln	Gly	Val	Leu	Arg	Gln	Leu	Met	Ser	Gln	Gly	Leu	Ser
154					85					90					95	
155																
156	Trp	His	Asp	Asp	Leu	Thr	Gln	Tyr	Val	Ile	Ser	Gln	Glu	Met	Glu	Arg
157	-		-	100				-	105					110		_
158														•		
159	Tle	Pro	Ara	T. 211	Ara	Pro	Pro	Glu	Pro	Δra	Pro	Δra	Asn	Ara	Ser	Glv
160	110	110	115	БСС	n- 9	110	110	120		9		9	125	A. y	DCL	<u></u>
			113					120					123			
161	.		D	.		D	a 1	D		a1	a 1	T	T	T	41	3
162	Leu		Pro	гÀг	arg	Pro	_	Pro	Ата	GTA	GIU		Leu	Leu	GIN	ASP
163		130					135					140				
164				_		_		_	_	_					_	
165	Ile	Pro	Thr	Gly	Ser	Ala	Pro	Ala	Ala	Gln	His	Arg	Leu	Pro	Gln	Pro
166	145					150					155					160
167																
168	Pro	Val	Gly	Lys	Gly	Gly	Ala	Gly	Ala	Ser	Ser	Ser	Leu	Ser	Pro	Leu
169			_	_	165	_		-		170					175	
170																
171	Gln	Ala	Glu	Leu	Leu	Pro	Pro	Leu	Leu	Glu	His	Leu	Leu	Leu	Pro	Pro
172				180					185					190		
173																
174	Gl n	Dro	Dro	uie	Dro	Ser	T All	Sor	Tur	Glu	Dro	λla	T All	T 011	Gln	Dro
	GIN	PIO	195	IIIS	PIO	Ser	пеа	200	ıyı	GIU	FIO	AIG	205	пец	GIII	FIO
175			133					200					203			
176	_	_	m1	•••	~ 1	D1	~ 1	a		•	a1		•		G	a 1
177	Tyr		Pne	HIS	GIN	Phe	_	ser	Arg	Asp	GTA		Arg	vaı	ser	GIU
178		210					215					220				
179	_			_												
180	_	Ser	Pro	Gly	Met	Val	Ser	Val	GIA	Pro		Pro	Lys	Ala	Glu	
181	225					230					235					240
182																
183	Pro	Ala	Leu	Phe	Ser	Arg	Thr	Ala	Ser	Lys	Gly	Ile	Phe	Gly	Asp	His
184					245					250					255	
185																
186	Pro	Gly	His	Ser	Tyr	Gly	Asp	Leu	Pro	Gly	Pro	Ser	Pro	Ala	Gln	Leu
187		-		260	-	-	_		265	_				270		
188																
189	Phe	Gln	Asp	Ser	Glv	Leu	Leu	Tvr	Leu	Ala	Gln	Glu	Leu	Pro	λla	Pro
190			275		1			280					285			
191			2,3					200					200			
192	Sar	Ara	λla	λra	Val	Pro	Ara	T 011	Dro	Glu	al n	G1 v	Sor	Sor	Sar	Ara
	Ser	290	ALG	Arg	Val	FIO	295	пеа	FIO	GIU	GIII	300	Ser	Ser	Ser	Arg
193		290					295					300				
194		~ 7	•	~	D	~ 7	a1	m	a 1	T	a 1	a 1	T	a 1	•	3
195		GIU	Asp	ser	Pro	Glu	GTA	Tyr	GTA	ьys		GTĀ	Leu	сту	Asp	_
196	305					310					315					320
197								_	_	_			_	_		_
198	Gly	Glu	Lys	Pro		Ser	Pro	Ala	Val		Pro	Asp	Ala	Ala		Gln
199					325					330					335	
200																
201	Arg	Leu	Ala	Ala	Val	Leu	Ala	Gly	Tyr	Gly	Val	Glu	Leu	Arg	Gln	Leu
202	_			340				_	345	_				350		
203																
204	Thr	Pro	Glu	Gln	Leu	Ser	Thr	Leu	Leu	Thr	Leu	Leu	Gln	Leu	Leu	Pro
205			355					360					365			- -
			555					230					555			

RAW SEQUENCE LISTING PATENT APPLICATION US/09/015,399

DATE: 03/26/1999 TIME: 14:05:00

206																
207	Lvs	Glv	Ala	Gly	Ara	Asn	Pro	Glv	Glv	Val	Val	Asn	Val	Glv	Ala	Asp
208	-1-	370		2	5		375	1	1			380		1		
209		•														
210	Ile	Lvs	Lvs	Thr	Met	Glu	Gly	Pro	Val	Glu	Gly	Arq	Asp	Thr	Ala	Glu
211	385	-	•			390	•				395	_	-			400
212																
213	Leu	Pro	Ala	Arg	Thr	Ser	Pro	Met	Pro	Gly	His	Pro	Thr	Ala	Ser	Pro
214					405					410					415	
215																
216	Thr	Ser	Ser	Glu	Val	Gln	Gln	Val	Pro	Ser	Pro	Val	Ser	Ser	Glu	Pro
217				420					425					430		
218																
219	Pro	Lys	Ala	Ala	Arg	Pro	Pro	Val	Thr	Pro	Val	Leu	Leu	Glu	Lys	Lys
220		_	435		_			440					445		_	_
221																
222	Ser	Pro	Leu	Gly	Gln	Ser	Gln	Pro	Thr	Val	Ala	Gly	Gln	Pro	Ser	Ala
223		450					455					460				
224																
225	Arg	Pro	Ala	Ala	Glu	Glu	Tyr	Gly	Tyr	Ile	Val	Thr	Asp	Gln	Lys	Pro
226	465					470					475					480
227																
228	Leu	Ser	Leu	Ala	Ala	Gly	Val	Lys	Leu	Leu	Glu	Ile	Leu	Ala	Glu	His
229					485					490					495	
230																
231	Val	His	Met	Ser	Ser	Gly	Ser	Phe	Ile	Asn	Ile	Ser	Val	Val	Gly	Pro
232				500					505					510		
233	_					_				_	-					
234	Ala	Leu		Phe	Arg	Ile	Arg		Asn	Glu	Gln	Asn		Ser	Leu	Ala
235			515					520					525			
236	_						-	_		_			_			
237	Asp		Thr	Gln	GIn	A⊥a	_	Leu	Val	Lys	Ser		Leu	GLu	Ala	GIn
238		530					535					540				
239	m1	a1	.	a1	~7 -	•	a1	m)	a 1	••- 7	41	a3	•	~ 1	a1	
240		GTÀ	ьeu	Gln	тте		GIN	Thr	GTA	vaı	_	GIN	Arg	GIU	GIU	
241	545					550					555					560
242 243	110	A 7 a	Wa 1	T 011	Dwo	a1 5	mb ~	310	uia	Com	mb ~	Cor	Dro	Wat	N ~	Cor
244	АТА	АТа	vaı	Leu	565	GIII	THE	АТа	птр	570	TILL	ser	PIO	Met	575	Ser
245					363					5/0					3/3	
246	Val	T 011	T 011	Thr	T 611	Val	λl =	T 611	λla	Gl v	Val	λla	al v	T. 611	T. 411	Val
247	Val	пеп		580		Val	ALG		585	_	Vai	ATG	СТУ	590	Бец	Val
248				300					303					370		
249	Δla	T.011	Δla	Val	λla	T.011	Cvs	Val	Δτα	@l n	His	Δla	Δra	Gln	Gln	Δsn
250	AIG	пец	595	Val	ATO	пец	Cys	600	Arg	GIII	111.5	MIG	605	GLII	0111	АБР
251			3,3					000					005			
252	Lvs	Glu	Ara	Leu	Ala	Ala	Leu	Glv	Pro	Glu	Glv	Αla	His	G] v	Asp	Thr
253	-,5	610	9	u			615	1			1	620		1		
254		-10														
255	Thr	Phe	Glu	Tyr	Gln	Asp	Leu	Cvs	Ara	Gln	His	Met	Ala	Thr	Lvs	Ser
256	625			- J -		630		-] -	9		635				-1-	640
257																
258	Leu	Phe	Asn	Arg	Ala	Glu	Glv	Pro	Pro	Glu	Pro	Ser	Ara	Val	Ser	Ser
=				9			1						3			

PAGE: 1

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